CLAIMS

What is claimed is:

1.   A reflow device including a heater to heat a carried member that is intermittently carried, comprising:

a driving mechanism to drive the heater back and forth along a carrying direction of the carried member; and

a driving control means to control the driving of the driving mechanism so as to keep a relative velocity between the carried member and the heater constant.

2.   The reflow device according to Claim 1, wherein the driving control means controls the driving of the driving mechanism so that the heater moves in the carrying direction at a carry time movement velocity that is slower than a carry velocity of the carried member if the carried member is in a carried state, and the heater moves in an opposite carrying direction at a carry standby time movement velocity derived from a difference between the carry velocity and the carry time movement velocity if the carried member is in a carry standby state.

3.   The reflow device according to Claim 2, wherein the driving control means controls the driving of the driving mechanism so that the heater moves in the opposite carrying direction at the carry standby time movement velocity if the carrying of the carried member stops abnormally.

4.   The reflow device according to Claim 1, wherein the driving control means controls the driving of the driving mechanism so that the heater reciprocates in a steady section between a carry starting position and a carry standby starting position if the intermittent carrying of the carried member is in a steady state.

5.   The reflow device according to Claim 4, wherein the driving mechanism comprises an unsteady section beyond the carry starting position from the steady section to which the heater moves.

6.   The reflow device according to Claim 1, further comprising:

a heater evacuation means for evacuating the heater from the carried member if the carrying of the carried member stops abnormally and the driving of the heater by the driving mechanism to keep the relative velocity to the carried member constant becomes impossible.